Resource Summary Report

Generated by kravitz2 on Sep 4, 2026

hCas9

RRID:Addgene_41815
Type: Plasmid

Proper Citation

RRID:Addgene_41815

Plasmid Information

URL: http://www.addgene.org/41815

Proper Citation: RRID:Addgene_41815

Insert Name: Cas9

Bacterial Resistance: Ampicillin

Defining Citation: PMID:23287722

Vector Backbone Description: Backbone Marker:Invitrogen; Vector Backbone:pcDNA3.3-TOPO; Vector Types:Mammalian Expression, CRISPR; Bacterial Resistance:Ampicillin

Comments: For additional information: http://arep.med.harvard.edu/human_crispr/

Plasmid Name: hCas9

Relevant Mutation: human codon-optimized

Record Creation Time: 20220422T222216+0000

Record Last Update: 20260902T045432+0000

Ratings and Alerts

No rating or validation information has been found for hCas9.

No alerts have been found for hCas9.

Data and Source Information

Source: Addgene

Usage and Citation Metrics

We found 453 mentions in open access literature.

Listed below are recent publications. The full list is available at kravitz2 .

Tolbert Z, et al. (2026) RAD54L promotes nascent DNA degradation and radial chromosome formation in FANC-deficient cells. bioRxiv : the preprint server for biology.

Grammatikakis I, et al. (2026) Intron Retention Controls Localization of lncRNAs PURPL and MALAT1 to Promote Cell Proliferation and Migration. bioRxiv : the preprint server for biology.

Deriglazova IO, et al. (2026) The Chimeric Nuclease SpRYc Exhibits Highly Variable Performance Across Biological Systems. International journal of molecular sciences, 27(1).

Tan K, et al. (2026) Treatment of Huntington's disease with a pan-HTT-targeting CRISPR nuclease. Molecular therapy : the journal of the American Society of Gene Therapy.

Szkodny AC, et al. (2025) A Flexible Hybrid Site-Specific Integration-Based Expression System in CHO Cells for Higher-Throughput Evaluation of Monoclonal Antibody Expression Cassettes. Biotechnology journal, 20(1), e202400520.

Shock LS, et al. (2025) Cytosine methylase and hydroxymethylase activity in mammalian mitochondria. Frontiers in cell and developmental biology, 13, 1677402.

Minowa-Nozawa A, et al. (2025) RabGAP1L modulates Rab7A and Rab10 to orchestrate cell-autonomous immunity. Cell reports, 44(5), 115599.

Ogawa Y, et al. (2025) GATA4 binding to the Sox9 enhancer mXYSRa/Enh13 is critical for testis differentiation in mouse. Communications biology, 8(1), 81.

Mladenov E, et al. (2025) CRISPR/Cas9 generated DSB clusters mimic complex lesions induced by high-LET radiation and shift repair from c-NHEJ to mutagenic repair pathways. Scientific reports, 15(1), 36480.

El Bouazzaoui L, et al. (2025) BRAFV600E maintains the CpG island methylator phenotype, and DNA methylation of PRC2 targets genes in colon cancer. iScience, 28(7), 112905.

El Bouazzaoui L, et al. (2025) BRAFV600E augments WNT signaling in colorectal cancer via aberrant DNA methylation. iScience, 28(7), 112708.

Hirose J, et al. (2025) Targeted in vivo gene integration of a secretion-enabled GLP-1 receptor agonist reverses diet-induced non-genetic obesity and pre-diabetes. Communications medicine, 5(1), 269.

Chou PC, et al. (2025) Phase separation of TTBK2 and CEP164 is necessary for ciliogenesis. Cell reports, 44(6), 115810.

Ye Y, et al. (2025) DNA-damage orchestrates self-renewal and differentiation via reciprocal p53 family and Hippo/Wnt/TGF-?? pathway activation in embryonic stem cells. Cellular and molecular life sciences : CMLS, 82(1), 38.

Mori LP, et al. (2025) The p400 complex promotes HIV-1 latency by suppressing viral transcription and altering the host cell state. Nucleic acids research, 53(15).

Tan K, et al. (2025) Treatment of Huntington's disease with a pan-HTT-targeting CRISPR nuclease. bioRxiv : the preprint server for biology.

Simpson JE, et al. (2024) Autophagy supports PDGFRA-dependent brain tumor development by enhancing oncogenic signaling. Developmental cell, 59(2), 228.

Su W, et al. (2024) Furin Egress from the TGN is Regulated by Membrane-Associated RING-CH Finger (MARCHF) Proteins and Ubiquitin-Specific Protease 32 (USP32) via Nondegradable K33-Polyubiquitination. Advanced science (Weinheim, Baden-Wurttemberg, Germany), 11(35), e2403732.

Matsumoto D, et al. (2024) SpCas9-HF1 enhances accuracy of cell cycle-dependent genome editing by increasing HDR efficiency, and by reducing off-target effects and indel rates. Molecular therapy. Nucleic acids, 35(1), 102124.

Dai L, et al. (2024) Identification and Validation of New DNA-PKcs Inhibitors through High-Throughput Virtual Screening and Experimental Verification. International journal of molecular sciences, 25(14).